

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended)

~~Reflector lamp (1, 1a, 1b, 1c, 1d), particularly a metal halide reflector lamp] comprising an outer envelope formed as a reflector (2) with a neck portion (3) at one end and a base (4), a light transmitting cover (5), particularly a lens which along its circumference (6) is connected to an outer edge (7) of the reflector (2), whereby reflector, base and cover are shaped generally rotationally symmetrical around a longitudinal axis (8), and a light capsule (9) or an arc tube, resp., having pinch seals (10, 11) at its ends and being surrounded by a shield (14) formed as a tubular envelope and being arranged in the reflector between base and cover, which capsule is retained within the shield by means of a first and a second lead-in (12, 13), the first lead-in (12) at the first end (15) of the capsule at the side of the base, and the second lead-in (13), being installed on the outside of the shield and introduced into its end (17) at the side of the cover, at the second end (16) of the capsule at the side of the cover, being sealed each in the respective pinch seal (10, 11)~~

characterized in that

~~renouncing melt-ins of the lead-ins (12, 13) within the shield (14) which seal the capsule (9) as against the environment, the lead-ins (12, 13) are fixed in the base (4) only, and in that the second lead-in (13) is biased such that, by this second lead-in (13) which abuts from the outside against the end (17) of the shield (14) on the side of the cover (5), the shield (14) is pressed against a bottom (18) of the neck portion (3) of the reflector (2), the lead-ins (12, 13) being guided through openings (19, 20) in this bottom (18) towards the base (4), which is secured to the bottom (18), and are fixed there.~~ A reflector lamp comprising, in combination:

an outer envelope formed as a reflector with a neck portion at one end and a light transmitting cover or lens at the opposite end,

said neck portion having a bottom wall facing the lens at the opposite end of the envelope,

a base fixed on the neck portion overlying said bottom wall,

said reflector, base and neck portion shaped generally rotationally symmetrically around a longitudinal axis;

a light capsule disposed within the envelope between the lens and said bottom wall,

a light transmitting tubular shield within the envelope surrounding the capsule and extending from adjacent the lens to said bottom wall,

first and second electrical leads fixed in said base and extending through said bottom wall,

said first lead electrically connected to the end of the capsule adjacent said bottom wall and said second lead electrically connected to the end of the capsule adjacent the lens with said first and second leads cooperatively supporting the capsule within the shield, and

said second lead shaped and proportioned to engage the shield adjacent the lens and urge the shield against said bottom wall of the neck portion.

2. (Currently amended)

~~Reflector lamp (1b) according to claim 1, characterized in that a first heat protection (23) is provided which surrounds the end (10) of the arc tube (9) in the region of its pinch seal on the side of the base (4) above the welded joint of lead-in (12) and melted-in foil (12') and which lies opposite the bottom (18) is provided with an opening (24) for the passage of the second lead-in (13), this opening (14) being aligned with the first passage opening (20) in the bottom (18):~~ The reflector lamp of claim 1 wherein said shield is open at the end adjacent said lens and said second lead extends through such open end of the shield and bears against such end urging the shield against said bottom wall.

3. (Currently amended)

~~Reflector lamp (1b) according to claim 2 characterized in that the first heat protection (23) on the side of the base (4) is fixed by support (23') in the neck region (3) and on the side of the cover (5) is fixed by the shield (14) being drawn to such support (23') by the second lead-in (13):~~ The reflector lamp of claim 1 wherein said bottom wall is provided with a pair of through apertures for receiving said leads fixed in and coming from said base with one aperture

opening within the shield toward the capsule and the other aperture opening outside said shield toward said lens.

4. (Currently amended)

~~Reflector lamp (1b) according to claim 3, characterized in that the second lead-in (13) and the first heat protection (23) are insulated from each other in the region of the opening (24).~~
The reflector lamp of claim 3 wherein the leads are moveably received in said apertures.

5. (Currently amended)

~~Reflector lamp (1b) according to claim 2, characterized in that a second heat protection can also be provided which surrounds the end (16) of the capsule (9) on the side of the cover in the region of its pinch seal (11) below the welding between second lead-in (13) and melted-in foil and lies opposite the upper end (17) of the shield (14) interiorly.~~ The reflector lamp of claim 4 wherein a heat barrier encircles the capsule adjacent said neck portion and extends between the capsule and the surrounding shield for reducing the heat transmission from the light capsule to the electrical connection between the said first lead and said light capsule.

6. (Currently amended)

~~Reflector Lamp (1c) according to claim 1, characterized in that between the end (15) of the capsule (9) on the side of the base (4) and the shield (14) on the one hand as well as between the shield (14) and the neck (3) of the reflector (2) on the other hand cement (28) can be inserted such that the pinch seal (10) at least up to the welding between lead-in (12) and melted-in foil (12') is covered by cement (28).~~ The reflector lamp of claim 3 wherein said heat barrier is provided with a through aperture aligned with said other aperture for moveably receiving there through said second lead.

7. (Currently amended)

~~Reflector lamp (1d) according to claim 1, characterized in that the location (18) at which the first lead-in (12) enters the appertaining pinch seal (10) of the first end (15) of the capsule (9) can be closed by glass solder (29).~~ The reflector lamp of claim 6 wherein the end of the shield adjacent said neck portion is urged against said heat barrier by said second lead.

8. (Currently amended)

Reflector lamp (1d) according to claim 7, ~~characterized in that~~ also the location (27) at which the second lead-in (13) enters the appertaining pinch seal (11) of the second end (16) of the capsule (9) can be closed with glass solder (28). The reflector lamp of claims 5, 6 or 7 wherein the capsule is provided with a radially outwardly extending support for engaging said heat barrier and squeezing the barrier against said neck portion.

9. (Currently amended)

Reflector lamp (1d) according to claim 1, ~~characterized in that~~ the location (18) at which the first lead-in (12) at the appertaining pinch seal (10) enters the first end (15) of the capsule (9) is closed by sodium silicate glass (29). The reflector lamp of claim 6 wherein said second lead is heat insulated from said heat barrier where said second lead extends through said through aperture in the heat barrier.

10. (Currently amended)

Reflector lamp (1d) according to claim 1, ~~characterized in that~~ also the location (27) at which the second lead-in (13) enters the appertaining pinch seal (11) of the second end (16) of the capsule (9) is closed by sodium silicate glass (29'). The reflector lamp of claim 1 wherein cement is provided between the bottom wall of the neck portion and the adjacent end of the light capsule and between the adjacent end of the tubular shield and interior of the neck portion thereby reducing the temperature at the connection between the first said lead and the light capsule and improving stability of the tubular shield and the light capsule.

11. (Currently amended)

Reflector lamp according to anyone of the preceding claims, ~~characterized in that~~ the lead-ins (12, 13) are platinized. The reflector lamp of claim 1 wherein said first lead enters said light capsule at the end thereof adjacent said bottom wall and is electrically connected to the light capsule, and glass solder or sodium silicate surrounds said lead where it enters the light capsule.

12. (Currently amended)

~~Reflector lamp according to one of claims 1 to 8, characterized in that the lead-ins (12, 13) are covered with quartz glass.~~ The reflector lamp of claim 1 wherein said second lead enters said light capsule adjacent the lens and is electrically connected to the light capsule, and glass solder or sodium silicate surrounds said lead where it enters the light capsule.

13. (New)

A reflector lamp according to any preceding claim wherein the leads are covered with quartz glass.

14. (New)

A reflector lamp according to any one of claims 1-12 wherein the leads are platinized.

15. (New)

The reflector lamp according to claim 5 wherein a second heat barrier encircles the capsule adjacent the lens and extends between the capsule and the surrounding shield for reducing the heat transmission from the light capsule to the electrical connection between the second lead and said light capsule.